

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claims 1, 8, 13 and 19-21 as follows:

Listing of Claims

1. (Currently Amended) An audio/video data processing apparatus comprising:

processing means for compressing audio/video data ~~in units of~~ into a plurality of compression blocks, each compression block having a first data length, a predetermined number of compression blocks forming a track data file including key data;

encrypting means for separating each compression block into a plurality of units and for encrypting each unit, ~~each encrypted unit being~~ as an encryption block having a second data length smaller than ~~the unit of the compression block having~~ the first data length, the key data including initial values for decrypting ~~[[the]]~~ each encryption block

wherein the first data length is a data length of an integer multiple greater than one of the second data length;

storage means for storing the ~~[[encrypted data]]~~ encryption blocks;

editing means for one of (a) dividing one track data file into two edited track data files and (b) combining two track data files into one edited track data file, said editing means creating new key data for the edited track data file(s) such that re-encryption of ~~[[the]]~~ encryption blocks is not performed for the edited track data file(s); and

control means for writing the ~~encrypted data~~ encryption blocks in said storage means so that data positioned in ~~[[the]]~~ a same encryption block is also positioned in ~~[[the]]~~ a same compression block, said control means reading the ~~[[data]]~~ encryption blocks from said

storage means in units of [[the]] compression [[block]] blocks.

2. (Previously Presented) The audio/video data processing apparatus as set forth in claim 1, wherein said control means inserts data into said compression block to adjust the data length in the compression block so that the length of said compression block becomes a whole multiple of the second data length of said encryption block.

3. (Previously Presented) The audio/video data processing apparatus as set forth in claim 1, wherein said encrypting means performs encryption processing using the encryption block to be encrypted and a cipher text obtained from the encryption of the encryption block immediately prior to the encryption block to be encrypted.

4. (Previously Presented) The audio/video data processing apparatus as set forth in claim 3, wherein said control means manages the encrypted data stored in said storage means using a cluster containing one or more compression blocks and the initial values initially used when encrypting an encryption block in one of said compression blocks.

5. (Previously Presented) The audio/video data processing apparatus as set forth in claim 4, wherein said control means stores said one or more compression blocks at consecutive addresses of said storage means in the order of encryption, stores said one or more encryption blocks in said compression blocks at consecutive addresses of said storage means in the order of encryption, and stores said initial values at an address immediately prior to the address of at which the first encryption block in the cluster is stored.

6. (Previously Presented) The audio/video data processing apparatus as set forth in claim 1, wherein said control means outputs said data read out in compression block units to said processing means.

7. (Canceled)

8. (Currently Amended) A data processing system for inputting and outputting data while performing mutual identification between a storage apparatus and an audio/video data processing apparatus, said storage apparatus comprising:

first mutual identification processing means for performing processing for mutual identification with said data processing apparatus;

storage means for storing said data; and

first control means for allowing the input and output of data between said data processing apparatus and said storage means when said data processing apparatus is recognized to be a legitimate party by the processing for mutual identification;

said audio/video data processing apparatus comprising:

second mutual identification processing means for performing processing for mutual identification with said storage apparatus;

processing means for compressing audio/video data ~~in units of~~ into a plurality of compression blocks, each compression block having a first data length, a predetermined number of compression blocks forming a track data file including key data;

encrypting means for separating each compression block into a plurality of units

and for encrypting each unit, ~~each encrypted unit being~~ as an encryption block having a second data length smaller than ~~the unit of the compression block having~~ the first data length, the key data including initial values for decrypting ~~[[the]]~~ each encryption block

wherein the first data length is a data length of an integer multiple greater than one of the second data length;

editing means for one of (a) dividing one track data file into two edited track data files and (b) combining two track data files into one edited track data file, said editing means creating new key data for the edited track data file(s) such that re-encryption of ~~[[the]]~~ encryption blocks is not performed for the edited track data file(s); and

second control means for performing at least one of write processing and read processing when said data processing apparatus is recognized to be a legitimate party by the processing for mutual identification, for writing the ~~encrypted data~~ encryption blocks in said storage means so that data positioned in one encryption block is also positioned in ~~[[the]]~~ a same compression block during write processing, and

for reading the ~~[[data]]~~ encryption blocks from said storage means in units of ~~[[the]]~~ compression ~~[[block]]~~ blocks during read processing.

9. (Previously Presented) The data processing system as set forth in claim 8, wherein said second control means inserts data into said compression block to adjust the data length in the compression block so that the length of said compression block becomes a whole multiple of the second data length of said encryption block.

10. (Original) The data processing system as set forth in claim 8, wherein said

encrypting means performs encryption processing using the encryption block to be encrypted and a cipher text obtained from the encryption of the encryption block immediately prior to the encryption block to be encrypted.

11. (Previously Presented) The data processing system as set forth in claim 10, wherein said second control means manages the encrypted data stored in said storage means using a cluster containing one or more compression blocks and the initial values initially used when encrypting an encryption block in one of said compression blocks.

12. (Previously Presented) The data processing system as set forth in claim 11, wherein the second control means stores said one or more compression blocks at consecutive addresses of said storage means in the order of encryption, stores said one or more encryption blocks in said compression blocks at consecutive addresses of said storage means in the order of encryption, and stores said initial values at an address immediately prior to the address of at which the first encryption block in the cluster is stored.

13. (Currently Amended) An audio/video data processing method, comprising the steps of:

compressing audio/video data ~~in units of~~ into a plurality of compression blocks, each compression block having a first data length, a predetermined number of compression blocks forming a track data file including key data;

separating each compression block into a plurality of units and encrypting each unit, ~~each encrypted unit being~~ as an encryption block having a second data length smaller than

~~the unit of the compression block having~~ the first data length, the key data including initial values for decrypting ~~[[the]]~~ each encryption block

wherein the first data length is a data length of an integer multiple greater than one of the second data length;

editing by one of (a) dividing one track data file into two edited track data files and (b) combining two track data files into one edited track data file, and creating new key data for the edited track data file(s) such that re-encryption of ~~[[the]]~~ encryption blocks is not performed for the edited track data file(s);

writing the ~~encrypted data~~ encryption blocks to a storage means so that data positioned in one encryption block are also positioned in ~~[[the]]~~ a same compression block; and

reading the ~~[[data]]~~ encryption blocks from the storage means in units of ~~[[the]]~~ compression ~~[[block]]~~ blocks.

14. (Previously Presented) The audio/video data processing method as set forth in claim 13, further comprising the step of inserting data into said compression block to adjust the data length in the compression block so that the length of said compression block becomes a whole multiple of the second data length of said encryption block.

15. (Previously Presented) The audio/video data processing method as set forth in claim 13, further comprising the step of using the encryption block to be encrypted and a cipher text obtained from the encryption of the encryption block immediately prior to the encryption block to be encrypted to perform encryption processing.

16. (Previously Presented) The audio/video data processing method as set forth in claim 15, further comprising the step of managing the encrypted data stored in said storage means using a cluster containing one or more compression blocks and the initial values initially used when encrypting an encryption block in one of said compression blocks.

17. (Previously Presented) The audio/video data processing method as set forth in claim 16, further comprising the steps of :

storing said one or more compression blocks at consecutive addresses of said storage means in the order of encryption;

storing said one or more encryption blocks in said compression blocks at consecutive addresses of said storage means in the order of encryption; and

storing said initial values at an address immediately prior to the address of at which the first encryption block in the cluster is stored.

18. (Canceled)

19. (Currently Amended) An audio/video data processing apparatus comprising:

processing means for compressing audio/video data [[in units]] into a plurality of compression blocks, each compression block having a first data length, wherein the first data length is a data length which is able to replay said audio/video data , a predetermined number of compression blocks forming a track data file including key data;

encrypting means for separating each compression block into a plurality of units

and for encrypting each unit, ~~each encrypted unit being~~ as an encryption block having a second data length, the key data including initial values for decrypting ~~[[the]]~~ each encryption block

wherein the first data length is a data length of an integer multiple greater than one of the second data length;

storage means for storing the ~~encrypted data~~ encryption blocks;

editing means for one of (a) dividing one track data file into two edited track data files and (b) combining two track data files into one edited track data file, said editing means creating new key data for the edited track data file(s) such that re-encryption of ~~[[the]]~~ encryption blocks is not performed for the edited track data file(s); and

control means for writing the ~~encrypted data~~ encryption blocks in said storage means so that data positioned in ~~[[the]]~~ a same encryption block is also positioned in ~~[[the]]~~ a same compression block, said control means reading the ~~[[data]]~~ encryption blocks from said storage means in units of ~~[[the]]~~ compression block blocks.

20. (Currently Amended) A data processing system for inputting and outputting data while performing mutual identification between a storage apparatus and an audio/video data processing apparatus, said storage apparatus comprising:

first mutual identification processing means for performing processing for mutual identification with said data processing apparatus;

storage means for storing said data; and

first control means for allowing the input and output of data between said data processing apparatus and said storage means when said data processing apparatus is recognized to be a legitimate party by the processing for mutual identification;

said audio/video data processing apparatus comprising:

second mutual identification processing means for performing processing for mutual identification with said storage apparatus;

processing means for compressing audio/video data ~~in units~~ into a plurality of compression blocks, each compression block having a first data length, wherein the first data length is a data length to replay said audio/video data, a predetermined number of compression blocks forming a track data file including key data;

encrypting means for separating each compression block into a plurality of units and for encrypting each unit, ~~each encrypted unit being as~~ an encryption block having a second data length, the key data including initial values for decrypting ~~[[the]]~~ each encryption block

wherein the first data length is a data length of an integer multiple greater than one of the second data length;

editing means for one of (a) dividing one track data file, into two edited track data files and (b) combining two track data files into one edited track data file, said editing means creating new key data for the edited track data file(s) such that re-encryption of ~~[[the]]~~ encryption blocks is not performed for the edited track data file(s); and

second control means for performing at least one of write processing and read processing when said data processing apparatus is recognized to be a legitimate party by the processing for mutual identification, for writing the ~~encrypted data~~ encryption blocks in said storage means so that data positioned in one encryption block is also positioned in ~~[[the]]~~ a same compression block during write processing, and for reading the ~~[[data]]~~ encryption blocks from said storage means in units of ~~[[the]]~~ compression ~~[[block]]~~ blocks during read processing.

21. (Currently Amended) An audio/video data processing method, comprising the steps of:

compressing audio/video data ~~in units~~ into a plurality of compression blocks, each compression block having a first data length, wherein the first data length is a data length for replay of said audio/video data, a predetermined number of compression blocks forming a track data file including key data;

separating each compression block into a plurality of units and encrypting each unit, ~~each encrypted unit being~~ as an encryption block having a second data length, the key data including initial values for decrypting ~~[[the]]~~ each encryption block;

wherein the first data length is a data length of an integer multiple greater than one of the second data length;

editing by one of (a) dividing one track data file into two edited track data files and (b) combining two track data files into one edited track data file, and creating new key data for the edited track data file(s) such that re-encryption of ~~[[the]]~~ encryption blocks is not performed for the edited track data file(s);

writing the ~~encrypted data~~ encryption blocks to a storage means so that data positioned in one encryption block are also positioned in ~~[[the]]~~ a same compression block; and

reading the ~~[[data]]~~ encryption blocks from the storage means in units of ~~[[the]]~~ compression ~~[[block]]~~ blocks.